TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

TestAmerica Job ID: 240-14090-1
Client Project/Site: Miami Fort FGD CERT - J12080271

For:
Duke Energy Corporation
13339 Hagers Ferry Road
Huntersville, North Carolina 28078

Attn: Tara Thomas

Denise Pohl

Authorized for release by:
8/28/2012 5:56:13 PM

Denise Pohl
Project Manager II
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Table of Contents

Definitions/Glossary

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Qualifiers

Metals

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CNF	Contains no Free Liquid
DL, RA, RE, IN	Indicates a Dilution, Reanalysis, Re-extraction, or additional Initial metals/anion analysis of the sample
EDL	Estimated Detection Limit
EPA	United States Environmental Protection Agency
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RL	Reporting Limit
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 240-14090-1

Laboratory: TestAmerica Canton

Narrative

CASE NARRATIVE

Client: Duke Energy Corporation

Project: Miami Fort FGD CERT - J12080271

Report Number: 240-14090-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica North Canton attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 08/11/2012; the samples arrived in good condition. The temperature of the cooler at receipt was 20.1 C.

LOW LEVEL MERCURY

Samples UNIT 8 BAS (240-14090-1), CCW (240-14090-2), BW-15 FB (240-14090-3), BW-15 (240-14090-4), BW-15 DUP (240-14090-5), IDI-4 (240-14090-6), UNIT 8 BAS (240-14090-7), CCW (240-14090-8), IDI-4 (240-14090-9) and TRIP BLANK (240-14090-10) were analyzed for Low Level Mercury in accordance with EPA Method 1631E. The samples were prepared on 08/22/2012 and analyzed on 08/27/2012.

Samples IDI-4 (240-14090-6)[20X] and IDI-4 (240-14090-9)[20X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No difficulties were encountered during the Low Level Mercury analyses.

All quality control parameters were within the acceptance limits.

Method Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Method	Method Description	Protocol	Laboratory
1631E	Mercury, Low Level (CVAFS)	EPA	TAL NC

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Sample Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
240-14090-1	UNIT 8 BAS	Water	08/08/12 08:30	08/11/12 08:30
240-14090-2	CCW	Water	08/08/12 09:15	08/11/12 08:30
240-14090-3	BW-15 FB	Water	08/08/12 10:45	08/11/12 08:30
240-14090-4	BW-15	Water	08/08/12 10:50	08/11/12 08:30
240-14090-5	BW-15 DUP	Water	08/08/12 10:55	08/11/12 08:30
240-14090-6	IDI-4	Water	08/08/12 14:10	08/11/12 08:30
240-14090-7	UNIT 8 BAS	Water	08/09/12 08:30	08/11/12 08:30
240-14090-8	CCW	Water	08/09/12 09:15	08/11/12 08:30
240-14090-9	IDI-4	Water	08/09/12 13:10	08/11/12 08:30
240-14090-10	TRIP BLANK	Water	08/09/12 00:00	08/11/12 08:30

Detection Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: UNIT 8 BAS — Lab Sample ID: 240-14090-1

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	5.2		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: CCW — Lab Sample ID: 240-14090-2

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	4.4		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: BW-15 FB — Lab Sample ID: 240-14090-3

No Detections

Client Sample ID: BW-15 — Lab Sample ID: 240-14090-4

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	2.5		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: BW-15 DUP — Lab Sample ID: 240-14090-5

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	2.3		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: IDI-4 — Lab Sample ID: 240-14090-6

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	130		10		ng/L	20		1631E	Total/NA

Client Sample ID: UNIT 8 BAS — Lab Sample ID: 240-14090-7

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	4.9		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: CCW — Lab Sample ID: 240-14090-8

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	4.0		0.50		ng/L	1		1631E	Total/NA

Client Sample ID: IDI-4 — Lab Sample ID: 240-14090-9

Analyte	Result	Qualifier	RL		Unit	Dil Fac	D	Method	Prep Type
Mercury	98		10		ng/L	20		1631E	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 240-14090-10

No Detections

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: UNIT 8 BAS
Date Collected: 08/08/12 08:30
Date Received: 08/11/12 08:30

Lab Sample ID: 240-14090-1
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	5.2		0.50		ng/L		08/22/12 09:45	08/27/12 16:34	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: CCW
Date Collected: 08/08/12 09:15
Date Received: 08/11/12 08:30

Lab Sample ID: 240-14090-2
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.4		0.50		ng/L		08/22/12 09:45	08/27/12 16:38	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: BW-15 FB
Date Collected: 08/08/12 10:45
Date Received: 08/11/12 08:30

Lab Sample ID: 240-14090-3
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		08/22/12 09:45	08/27/12 16:42	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: BW-15
Date Collected: 08/08/12 10:50
Date Received: 08/11/12 08:30

Lab Sample ID: 240-14090-4
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.5		0.50		ng/L		08/22/12 09:45	08/27/12 16:45	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: BW-15 DUP
Date Collected: 08/08/12 10:55
Date Received: 08/11/12 08:30

Lab Sample ID: 240-14090-5
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	2.3		0.50		ng/L		08/22/12 09:45	08/27/12 16:56	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: IDI-4
Date Collected: 08/08/12 14:10
Date Received: 08/11/12 08:30

Lab Sample ID: 240-14090-6
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	130		10		ng/L		08/22/12 09:45	08/27/12 17:07	20

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: UNIT 8 BAS
Date Collected: 08/09/12 08:30
Date Received: 08/11/12 08:30

Lab Sample ID: 240-14090-7
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.9		0.50		ng/L		08/22/12 09:45	08/27/12 17:11	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: CCW
Date Collected: 08/09/12 09:15
Date Received: 08/11/12 08:30

Lab Sample ID: 240-14090-8
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	4.0		0.50		ng/L		08/22/12 09:45	08/27/12 17:15	1

Client Sample Results

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: IDI-4
Date Collected: 08/09/12 13:10
Date Received: 08/11/12 08:30

Lab Sample ID: 240-14090-9
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	98		10		ng/L		08/22/12 09:45	08/27/12 17:18	20

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: TRIP BLANK
Date Collected: 08/09/12 00:00
Date Received: 08/11/12 08:30

Lab Sample ID: 240-14090-10
Matrix: Water

Method: 1631E - Mercury, Low Level (CVAFS)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		08/22/12 09:45	08/27/12 17:22	1

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Method: 1631E - Mercury, Low Level (CVAFS)

Lab Sample ID: MB 240-55286/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 55987 — **Prep Batch: 55286**

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.50	U	0.50		ng/L		08/22/12 09:45	08/27/12 16:16	1

Lab Sample ID: LCS 240-55286/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 55987 — **Prep Batch: 55286**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	5.66		ng/L		113	77 - 123		

Lab Sample ID: 240-14090-4 MS — **Client Sample ID: BW-15**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 55987 — **Prep Batch: 55286**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	2.5		5.00	6.66		ng/L		84	71 - 125		

Lab Sample ID: 240-14090-4 MSD — **Client Sample ID: BW-15**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 55987 — **Prep Batch: 55286**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	2.5		5.00	6.54		ng/L		81	71 - 125	2	24

Metals

Prep Batch: 55286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14090-1	UNIT 8 BAS	Total/NA	Water	1631E	
240-14090-2	CCW	Total/NA	Water	1631E	
240-14090-3	BW-15 FB	Total/NA	Water	1631E	
240-14090-4	BW-15	Total/NA	Water	1631E	
240-14090-4 MS	BW-15	Total/NA	Water	1631E	
240-14090-4 MSD	BW-15	Total/NA	Water	1631E	
240-14090-5	BW-15 DUP	Total/NA	Water	1631E	
240-14090-6	IDI-4	Total/NA	Water	1631E	
240-14090-7	UNIT 8 BAS	Total/NA	Water	1631E	
240-14090-8	CCW	Total/NA	Water	1631E	
240-14090-9	IDI-4	Total/NA	Water	1631E	
240-14090-10	TRIP BLANK	Total/NA	Water	1631E	
LCS 240-55286/2-A	Lab Control Sample	Total/NA	Water	1631E	
MB 240-55286/1-A	Method Blank	Total/NA	Water	1631E	

Analysis Batch: 55987

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-14090-1	UNIT 8 BAS	Total/NA	Water	1631E	55286
240-14090-2	CCW	Total/NA	Water	1631E	55286
240-14090-3	BW-15 FB	Total/NA	Water	1631E	55286
240-14090-4	BW-15	Total/NA	Water	1631E	55286
240-14090-4 MS	BW-15	Total/NA	Water	1631E	55286
240-14090-4 MSD	BW-15	Total/NA	Water	1631E	55286
240-14090-5	BW-15 DUP	Total/NA	Water	1631E	55286
240-14090-6	IDI-4	Total/NA	Water	1631E	55286
240-14090-7	UNIT 8 BAS	Total/NA	Water	1631E	55286
240-14090-8	CCW	Total/NA	Water	1631E	55286
240-14090-9	IDI-4	Total/NA	Water	1631E	55286
240-14090-10	TRIP BLANK	Total/NA	Water	1631E	55286
LCS 240-55286/2-A	Lab Control Sample	Total/NA	Water	1631E	55286
MB 240-55286/1-A	Method Blank	Total/NA	Water	1631E	55286

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: UNIT 8 BAS
Lab Sample ID: 240-14090-1
Date Collected: 08/08/12 08:30
Matrix: Water
Date Received: 08/11/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			55286	08/22/12 09:45	BD	TAL NC
Total/NA	Analysis	1631E		1	55987	08/27/12 16:34	LM	TAL NC

Client Sample ID: CCW
Lab Sample ID: 240-14090-2
Date Collected: 08/08/12 09:15
Matrix: Water
Date Received: 08/11/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			55286	08/22/12 09:45	BD	TAL NC
Total/NA	Analysis	1631E		1	55987	08/27/12 16:38	LM	TAL NC

Client Sample ID: BW-15 FB
Lab Sample ID: 240-14090-3
Date Collected: 08/08/12 10:45
Matrix: Water
Date Received: 08/11/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			55286	08/22/12 09:45	BD	TAL NC
Total/NA	Analysis	1631E		1	55987	08/27/12 16:42	LM	TAL NC

Client Sample ID: BW-15
Lab Sample ID: 240-14090-4
Date Collected: 08/08/12 10:50
Matrix: Water
Date Received: 08/11/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			55286	08/22/12 09:45	BD	TAL NC
Total/NA	Analysis	1631E		1	55987	08/27/12 16:45	LM	TAL NC

Client Sample ID: BW-15 DUP
Lab Sample ID: 240-14090-5
Date Collected: 08/08/12 10:55
Matrix: Water
Date Received: 08/11/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			55286	08/22/12 09:45	BD	TAL NC
Total/NA	Analysis	1631E		1	55987	08/27/12 16:56	LM	TAL NC

Client Sample ID: IDI-4
Lab Sample ID: 240-14090-6
Date Collected: 08/08/12 14:10
Matrix: Water
Date Received: 08/11/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			55286	08/22/12 09:45	BD	TAL NC
Total/NA	Analysis	1631E		20	55987	08/27/12 17:07	LM	TAL NC

Lab Chronicle

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Client Sample ID: UNIT 8 BAS

Lab Sample ID: 240-14090-7

Date Collected: 08/09/12 08:30
Matrix: Water
Date Received: 08/11/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			55286	08/22/12 09:45	BD	TAL NC
Total/NA	Analysis	1631E		1	55987	08/27/12 17:11	LM	TAL NC

Client Sample ID: CCW

Lab Sample ID: 240-14090-8

Date Collected: 08/09/12 09:15
Matrix: Water
Date Received: 08/11/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			55286	08/22/12 09:45	BD	TAL NC
Total/NA	Analysis	1631E		1	55987	08/27/12 17:15	LM	TAL NC

Client Sample ID: IDI-4

Lab Sample ID: 240-14090-9

Date Collected: 08/09/12 13:10
Matrix: Water
Date Received: 08/11/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			55286	08/22/12 09:45	BD	TAL NC
Total/NA	Analysis	1631E		20	55987	08/27/12 17:18	LM	TAL NC

Client Sample ID: TRIP BLANK

Lab Sample ID: 240-14090-10

Date Collected: 08/09/12 00:00
Matrix: Water
Date Received: 08/11/12 08:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	1631E			55286	08/22/12 09:45	BD	TAL NC
Total/NA	Analysis	1631E		1	55987	08/27/12 17:22	LM	TAL NC

Laboratory References:

TAL NC = TestAmerica Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Certification Summary

Client: Duke Energy Corporation
Project/Site: Miami Fort FGD CERT - J12080271

TestAmerica Job ID: 240-14090-1

Laboratory: TestAmerica Canton

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
California	NELAC	9	01144CA	06-30-13
Connecticut	State Program	1	PH-0590	12-31-13
Florida	NELAC	4	E87225	06-30-13
Georgia	State Program	4	N/A	06-30-13
Illinois	NELAC	5	200004	07-31-13
Kansas	NELAC	7	E-10336	01-31-13
Kentucky	State Program	4	58	11-16-12
L-A-B	DoD ELAP		L2315	02-28-13
Minnesota	NELAC	5	039-999-348	12-31-12
Nevada	State Program	9	OH-000482008A	07-31-12
New Jersey	NELAC	2	OH001	06-30-13
New York	NELAC	2	10975	04-01-13
Ohio VAP	State Program	5	CL0024	01-19-14
Pennsylvania	NELAC	3	68-00340	08-31-12
USDA	Federal		P330-11-00328	08-26-14
Virginia	NELAC	3	460175	09-14-12
Washington	State Program	10	C971	01-12-13
West Virginia DEP	State Program	3	210	12-31-12
Wisconsin	State Program	5	999518190	08-31-12

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratory location: _____

Regulatory program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other _____

TestAmerica Laboratories, Inc.

Client Contact				
Company Name: DUKE ENERGY	Client Project Manager: M WAGNER (URS)	Site Contact:	Lab Contact: [illegible]	COC No: 046450
Address: MIAMI FORT STATION	Telephone: 513-651-3440	Telephone:	Telephone:	1 of 1 COCs
City/State/Zip: N. BEND, OH.	Email: mike.wagner@urs.com	Analysis Turnaround Time (in BUS days)	Analyses	For lab use only
Phone:	CC: joseph.potts@dukeenergy.com	TAT if different from below: Contract		Walk-in client:
Project Name: MIAMI FORT FGD CCRT	Method of Shipment/Carrier:	☐ 3 weeks ☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day		Lab pickup:
Project Number: 14950789	Shipping/Tracking No:			Lab sampling:
PO#				Job/SDG No.:

Sample Identification	Sample Date	Sample Time	Matrix: Air	Aqueous	Sediment	Solid	Other:	Containers & Preservatives: H2SO4	HNO3	HCl	NaOH	ZnAc/NaOH	Unpres	Other:	Filtered Sample (Y/N)	Composite = C / Grab = G	Lab Only	Sample Specific Notes / Special Instructions:
UNIT 8 BAS	8-8-12	0830		X									4		N	G	X	
CCW		0915		X									4		N	G	X	
BW-15 FB		1045		X									2		N	G	X	
BW-15		1050		X									4		N	G	X	
BW-15 Dup		1055		X									4		N	G	X	
IDI-4		1410		X									4		N	G	X	
UNIT 8 BAS	8-9-12	0830		X									4				X	
CCW		0915		X									4				X	
IDI-4		1310		X									4				X	
TRIP BLANK	—	—											2		—		X	

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☒ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal By Lab ☐ Archive For _____ Months

Special Instructions/QC Requirements & Comments:

Relinquished by:	Company: URS	Date/Time: 08-10-12 / 1200	Received by:	Company: TestAmerica	Date/Time: 8/10/12 / 12:00
Relinquished by:	Company: TestAmerica	Date/Time: 8-10-12 / 14:10	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 8/11/12 0830

TAL 0018- 1 (04/10)

8/28/2012

Analytical Laboratory Request Form (ARF)

(1) Complete all yellow sections of this form. Move through by striking the "TAB" key.	
(2) Save the file & e-mail to:	labcustomer@duke-energy.com
Questions / Problems Call:	704-875-5245

Customer Information

Name	Office Phone	Cell Phone
Mike Wagner	513 651 3440	NA
Fax	**e-Mail Address**	
513 651 3452	mike_wagner@urscorp.com	

Accounting Fields

*** Only complete if specific charging to capital or other special projects is needed. Include field type and specific field entry. ***

Field Type	Specific Field

Sampling Information

Sampling Personnel / Contractor	Scheduled Sampling Date	Date Sample Kit Needed
URS Field Staff Geologist / URS	7/31 - 8/1 and 8/8 - 8/9 / 2012	7/27/2012

Shipping Address for Kit

Name	Phone	Mail Code
Mike Wagner	513 651 3440	NA
Street Address - street address and town needed	**State**	**Zip Code**
36 East 7th Street suite 2300, Cincinnati, Ohio 45202	Ohio	45202

Reporting

Report Due Date	Additional Reports - .pdf file w/ Basic QC and EDD (spreadsheet) is Standard	
8/31/2012	Standard (reporting limits and method detection limits)	
Report To (e-Mail Address 1)	**Report To (e-Mail Address 2)**	**Report to (e-Mail Address 3)**
mike_wagner@urscorp.com	Tara.Thomas@duke-energy.com	Joseph.Potts@duke-energy.com

Project Specifics

Project Name		Program Type
Miami Fort Station CERT		Waste Water Process Monitoring
Site, Location or Station	**State**	**Approximate Number of Days Sampling is Scheduled**
Miami Fort Station, Hamilton Co.	Ohio	4

Notes, Special Requests, Required Contract Lab to use, etc. **(LIMS Job Number-Duke Lab Provides)**

TestAmerica - North Canton, Ohio

Bottles	Matrix	Variables, Methods
Separate Cooler(s) for		
6 (four vial package)	water	LL Hg (collected by method 1669, analysis by Method 1631E)
1 field blank	water	LL Hg (collected by method 1669, analysis by Method 1631E)
Trip Blank		LL Hg (collected by method 1669, analysis by Method 1631E)
Separate Cooler(s) for		
8 (four vial package)	water	LL Hg (collected by method 1669, analysis by Method 1631E)
1 field blank	water	LL Hg (collected by method 1669, analysis by Method 1631E)
Trip Blank		LL Hg (collected by method 1669, analysis by Method 1631E)

Jan 09

TestAmerica North Canton Sample Receipt Form/Narrative Login # : 14090

Client Duke Energy Site Name Miami Fort By: (Signature)

Cooler Received on 8/11/12 Opened on 8-13-12

FedEx: 1st Grd Exp UPS FAS (Stetson) Client Drop Off TestAmerica Courier Other

TestAmerica Cooler # 5049 Foam Box Client Cooler Box Other

Packing material used: (Bubble Wrap) Foam Plastic Bag None Other

COOLANT: Wet Ice Blue Ice Dry Ice Water (None)

1. Cooler temperature upon receipt

IR GUN# 1	(CF 0°C)	Observed Sample Temp. 26.1 °C	Corrected Sample Temp. 26.1 °C	☐ Multiple on Back
IR GUN# 4G	(CF −1°C)	Observed Sample Temp. ____ °C	Corrected Sample Temp. ____ °C	
IR GUN# 5G	(CF −1°C)	Observed Sample Temp. ____ °C	Corrected Sample Temp. ____ °C	
IR GUN# 8	(CF 0°C)	Observed Sample Temp. ____ °C	Corrected Sample Temp. ____ °C	

2. Were custody seals on the outside of the cooler(s)? If Yes Quantity 1	(Yes) No
-Were custody seals on the outside of the cooler(s) signed & dated?	(Yes) No NA
-Were custody seals on the bottle(s)?	Yes (No)
3. Shippers' packing slip attached to the cooler(s)?	(Yes) No
4. Did custody papers accompany the sample(s)?	(Yes) No
5. Were the custody papers relinquished & signed in the appropriate place?	(Yes) No
6. Did all bottles arrive in good condition (Unbroken)?	(Yes) No
7. Could all bottle labels be reconciled with the COC?	(Yes) No
8. Were correct bottle(s) used for the test(s) indicated?	(Yes) No
9. Sufficient quantity received to perform indicated analyses?	(Yes) No
10. Were sample(s) at the correct pH upon receipt?	Yes No (NA)
11. Were VOAs on the COC?	(Yes) No
12. Were air bubbles >6 mm in any VOA vials?	Yes No (NA)
13. Was a trip blank present in the cooler(s)?	(Yes) No

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

14. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES

high temp - OK - LLHg

15. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.

Sample(s) _____ were received in a broken container.

Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

16. SAMPLE PRESERVATION

Sample(s) ______________________________ were further preserved in Sample Receiving to meet recommended pH level(s). Nitric Acid Lot# 110410-HNO3; Sulfuric Acid Lot# 041911-H2SO4; Sodium Hydroxide Lot# 121809 - NaOH; Hydrochloric Acid Lot# 041911-HCl; Sodium Hydroxide and Zinc Acetate Lot# 100108-(CH3COO)2ZN/NaOH. What time was preservative added to sample(s)? ____________________

Client ID	pH	Date	Initials

Cooler #	Observed Sample Temp. °C	Corrected Sample Temp. °C	IR #	Coolant